Cabinets – VARISTAR Datacom/Networking
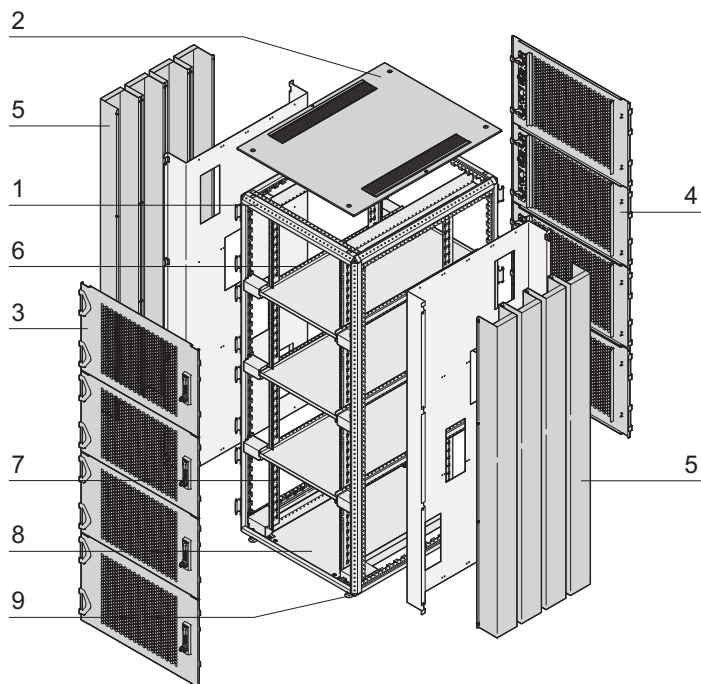
VARISTAR Colocation

Illustration shows cabinet with 3 divider units

01013001

- Colocation cabinets with 2, 3 or 4 divider units to accommodate e.g. servers
  - Perforated doors (airflow rate 78%)
  - Multi-point door locking to prevent unauthorized access (lever handle with key and numeric code)
  - Access to false floors and cabling only from the appropriate divider unit
- Flexible cabling, possible from above, below, left or right (data and power cables can be run separately)
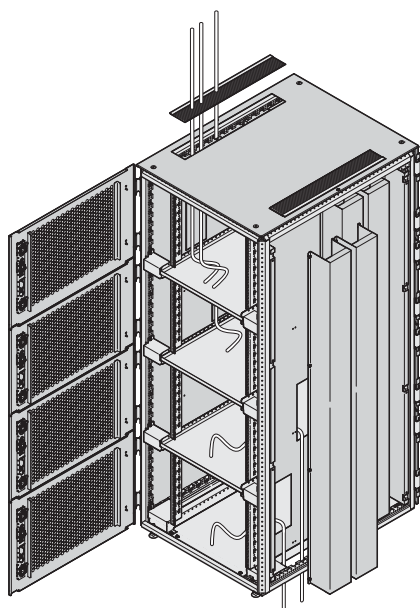- Protection class IP 20
- Color RAL 7021 (black gray)

NEW

Delivery includes

Item	Qty	Description
1	1	Welded basic frame (Slim-Line) from steel profiles, RAL 7021
2	1	Flat top cover, St, RAL 7021, with brush strip (left and right)
3	2 per divider unit	Front door, rack St, perforated, RAL 7035, 180° hinge, 2-point locking and lever handle (key and numeric code)
4	2 per divider unit	Rear door, St, perforated, RAL 7021, 180° hinge, 2-point locking and lever handle (key and numeric code)
5	2 per divider unit	Cable channels, left and right
6	2 per divider unit	Depth member for fixing false floors and 19" profiles
7	4 per divider unit	19" panel, St, RAL 7035, with EIA perforation, depth-adjustable in 25 mm increments, standard fitting position 74 mm recessed
8	2 per divider unit	Base plate can be mounted from inside
9	4	Adjustable foot
10	1	Earthing kit, fitted

01013050

Detail of a divider unit

01013002

VARISTAR Colocation

01013051

01013004

Illustration: Cable panel, two-sided through entire cabinet height, cable entry top/bottom

01013003

Detail: Lever handle with numeric code

Order Information

Height mm	Width mm	Depth mm	Number of subdivisions	Part no.
2000	600	1000	2	10130-202
2000	600	1000	3	10130-203
2000	600	1000	4	10130-204
2000	600	1200	2	10130-214
2000	600	1200	3	10130-215
2000	600	1200	4	10130-216
2000	800	1000	2	10130-205
2000	800	1000	3	10130-206
2000	800	1000	4	10130-207
2000	800	1200	2	10130-217
2000	800	1200	3	10130-218
2000	800	1200	4	10130-219
2200	600	1000	2	10130-208
2200	600	1000	3	10130-209
2200	600	1000	4	10130-210
2200	600	1200	2	10130-220
2200	600	1200	3	10130-221
2200	600	1200	4	10130-222
2200	800	1000	2	10130-211
2200	800	1000	3	10130-212
2200	800	1000	4	10130-213
2200	800	1200	2	10130-223
2200	800	1200	3	10130-224
2200	800	1200	4	10130-225

Note

■ Side panel must be ordered separately

■ For suitable side panel see page 1.159

■ Cable panel, see page 1.152

For further information www.schroff.biz/oneclick
oneClick search code = Part no.

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days
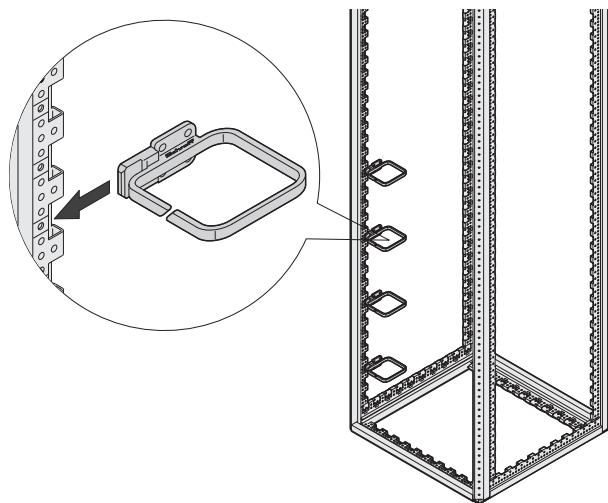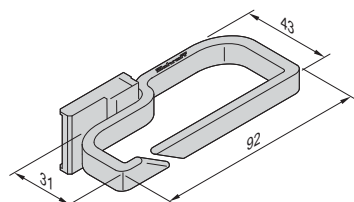
N 3

Cable eye, plastic

Illustration shows application (W, D = 100 mm)

01006078

W = 31 mm, D = 92 mm

01012085

- For mounting on cabinet uprights on 600 or 800 mm wide cabinets
- Simple and fast assembly by clicking into the cabinet profile (without assembly kit)
- Cable ducting laterally in front of the 19" panel/slide mount

NEW

Delivery includesDelivery includes

Item	Qty	Description
1	4	Cable eye, PA, UL 94 V-0, black

Order Information

For cabinet width mm	W mm	D mm	Part no.
600	31	92	**23130-506**

For further information www.schroff.biz/oneclick
oneClick search code = Part no.

See in new pdf catalog, page 1.148

E Main Catalog
E 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 5

Cabinets – Varistar ServicePLUS containment
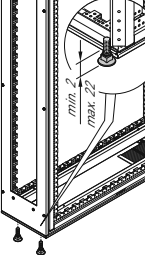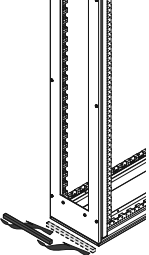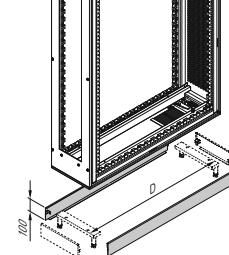
Configuration of SHX 30 air/water heat exchanger

Order Information

13005

01013068

Rack (VARISTAR Slim-Line), St, RAL 7021; top cover and base plate, front and rear panel; prepared to accommodate SHX 30 air/water heat exchanger

01013076

01013077

No.	For cabinet height H U	mm	Aisle height (lower edge) mm	Raising elements	Frame 1000 mm deep 1 piece	1200 mm deep 1 piece	SHX 30 air/water heat exchanger, 30 kW Water connection at bottom 1 piece	1 piece	Water connection at top and bottom (with condensate pump) 1 piece	1 piece
								2 PSUs, redundant power supply	1 PSU	2 PSUs, redundant power supply
1			2018	Adjustable feet						
2			2102	Adjustable feet + raised top cover						
3	42	2000	2108	Base/plinth	10130-226	10130-227	60714-067	60714-068	60714-077	60714-078
4			2192	Base/plinth + raised top cover						
5			2218	Adjustable feet						
6			2302	Adjustable feet + raised top cover						
7	47	2200	2308	Base/plinth	10130-228	10130-229	60714-067	60714-068	60714-077	60714-078
8			2392	Base/plinth + raised top cover						

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

Cabinets – Varistar ServicePLUS containment
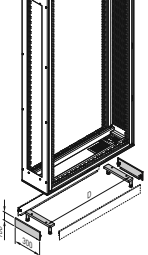
Configuration of SHX 30 air/water heat exchanger
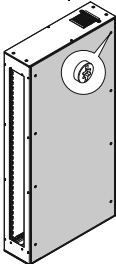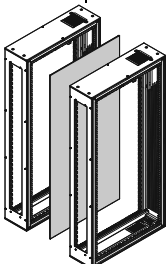
Order Information

01013005

	Adjustable feet	Gasketing for adjustable feet	Base/plinth	Side trim for base/plinth
				Depth 1000 mm	Depth 1200 mm
	01013069	01013070	01013071	01013072
	St, black, for the rack, static load-carrying capacity 1000 kg. Please order gasketing separately	Polyurethane gasketing, suitable for front and rear, RAL 7021; for closing the air gap at the front	Base plinth, St, cover, St, 1.5 mm, height 100 mm, width 300 mm, RAL 7021; please order cover separately	St, 1.5 mm, height 100 mm, RAL 7021

No.	For cabinet height H U	mm	Aisle height (lower edge) mm	Raising elements	PU 4 pieces	PU 2 pieces	PU 1 kit	PU 2 pieces	PU 2 pieces
1			2018	Adjustable feet					
2			2102	Adjustable feet + raised top cover					
3	42	2000	2108	Base/plinth	23130-511	23130-538	23130-507	**23130-172**	23130-363
4			2192	Base/plinth + raised top cover					
5			2218	Adjustable feet					
6			2302	Adjustable feet + raised top cover					
7	47	2200	2308	Base/plinth	23130-511	23130-538	23130-507	**23130-172**	23130-363
8			2392	Base/plinth + raised top cover					

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 7

Cabinets – Varistar ServicePLUS containment

Configuration of SHX 30 air/water heat exchanger

Order Information

13005

No.	For cabinet height H U	mm	Aisle height (lower edge) mm	Raising elements	Screw-fixed side panel Depth 1000 mm PU 2 pieces	Screw-fixed side panel Depth 1200 mm PU 2 pieces	Separating wall Cabinet depth 1000 mm 1 piece	Separating wall Cabinet depth 1200 mm 1 piece
1			2018	Adjustable feet				
2	42	2000	2102	Adjustable feet + raised top cover	21130-013	21130-535	23130-480	23130-481
3			2108	Base/plinth				
4			2192	Base/plinth + raised top cover				
5			2218	Adjustable feet				
6	47	2200	2302	Adjustable feet + raised top cover	21130-018	21130-537	23130-484	23130-485
7			2308	Base/plinth				
8			2392	Base/plinth + raised top cover				

Screw-fixed side panel

01013073

St, 1 mm, incl. GND/earthing

Separating wall

01013074

St, 1 mm, AlZn; lateral cabinet mounting prevents unauthorized access

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

Cabinets – Varistar ServicePLUS containment

Configuration of SHX 30 air/water heat exchanger

Order Information

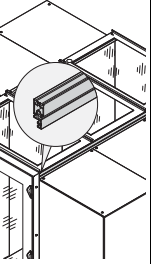| No.	For cabinet height H U	mm	Aisle height (lower edge) mm	Raising elements	Top cover 300 mm width 01013079 St, 2 mm, RAL 7021, aisle width 1200 mm 1 piece	Top cover 200 mm width 01013078 St; 2 mm, RAL 7021, aisle width 1200 mm; for installation directly beside mechanical sliding door only 1 piece	Raised top cover 01012051 Al extrusion, RAL 7021, length 2400 mm, height 84 mm PU 2 pieces	Assembly kit 01012052 Mounting of top cover raising profile PU 6 pieces
1			2018	Adjustable feet			–	–
2	42	2000	2102	Adjustable feet + raised top cover	21130-648	21130-649	21130-594	23130-433
3			2108	Base/plinth			–	–
4			2192	Base/plinth + raised top cover			21130-594	23130-433
5			2218	Adjustable feet			–	–
6	47	2200	2302	Adjustable feet + raised top cover	21130-648	21130-649	21130-594	23130-433
7			2308	Base/plinth			–	–
8			2392	Base/plinth + raised top cover			21130-594	23130-433

13005

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 9

Cabinets – Varistar ServicePLUS containment

Rack for SHX 30 air/water heat exchanger
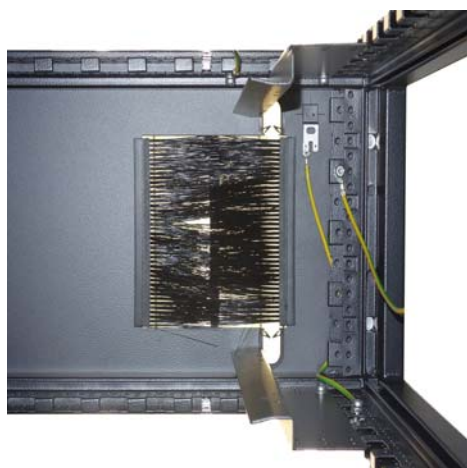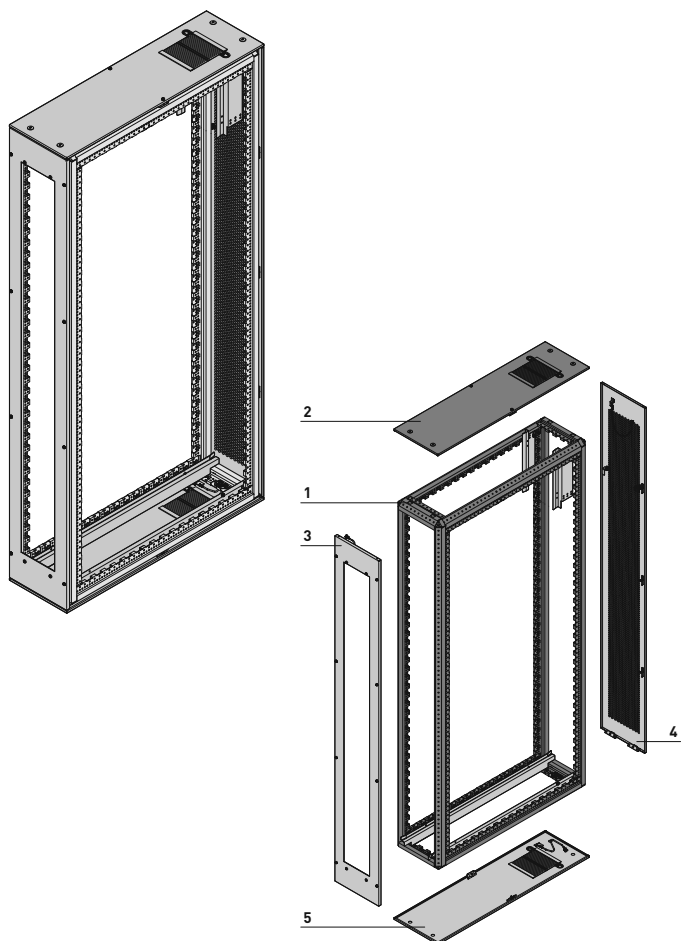
- Rack (VARISTAR Slim-Line) to accommodate a SHX 30 air/ water heat exchanger
- Height 2000 or 2200 mm
- Depth 1000 or 1200 mm
- Width 300 mm
- Covers top, bottom, front and rear

NEW

Delivery includes

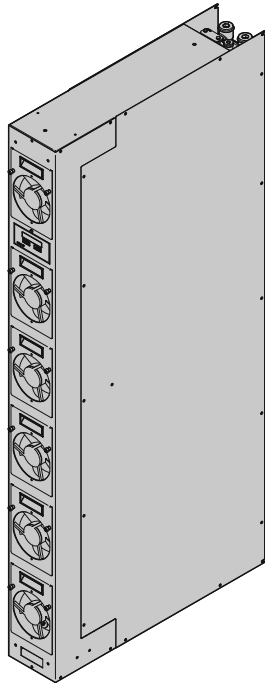| Item	Qty	Description
1	1	Welded basic rack (Slim-Line) from steel profiles, RAL 7021; earthing stud
2	1	Flat top cover, St, RAL 7021; with brush strip cut-out (for water) and on the side for cable ducting
3	1	Front frame, St, RAL 7021
4	1	Rear cover, perforated, lockable
5	1	Base plate, St, RAL 7021; with brush strip cut-out (for water) and on the side for cable ducting

01013068   01013080

Order Information

Height mm	Width mm	Depth mm	Part no.
2000	300	1000	10130-226
2000	300	1200	10130-227
2200	300	1000	10130-228
2200	300	1200	10130-229
Accessories			
Adjustable feet for the frame, RAL 7021, static load-carrying capacity 1000 kg, PU 4 pieces			23130-511
Gasketing for adjustable feet Polyurethane foam gasketing, color similar to RAL 7021, length 300 mm, for sealing front and rear, PU 2 pieces			23130-538
Base/plinth Base plinth, St, width 300 mm, height 100 mm; bolted to rack, PU 2 pieces			23130-507
Side trim St, 1.5 mm, height 100 mm, depth 1000 mm, PU 2 pieces			**23130-172**
Side trim St, 1.5 mm, height 100 mm, depth 1200 mm, PU 2 pieces			23130-363
Side panel, screw-fixed for IP 55 St, 1 mm, height 2000 mm, depth 1000 mm, 2 pieces			21130-013
Side panel, screw-fixed for IP 55 St, 1 mm, height 2000 mm, depth 1200 mm, 2 pieces			21130-535
Side panel, screw-fixed for IP 55 St, 1 mm, height 2200 mm, depth 1200 mm, 2 pieces			21130-018
Side panel, screw-fixed for IP 55 St, 1 mm, height 2200 mm, depth 1200 mm, 2 pieces			21130-537
Separating wall St, 1 mm, AlZn, height 2000 mm, for depth 1000 mm, 1 piece			23130-480
Separating wall St, 1 mm, AlZn, height 2000 mm, for depth 1200 mm, 1 piece			23130-481
Separating wall St, 1 mm, AlZn, height 2200 mm, for depth 1000 mm, 1 piece			23130-484
Separating wall St, 1 mm, AlZn, height 2200 mm, for depth 1200 mm, 1 piece			23130-485

01013022

Water enters via brush strips; lateral cable ducting for power/data cables

Cabinets – Varistar ServicePLUS containment

SHX 30 air/water heat exchanger

01013077

- Air/water heat exchanger with 30 kW cooling capacity
- Water connection at bottom or bottom/top (with condensate pump)
- 1 PSU or 2 PSUs (redundant)
- Fans may be exchanged individually during operation
- Drop collector and condensate management

NEW

Delivery includes

Item	Qty	Description
1	1	SHX 30 air/water heat exchanger, RAL 7021, 100 ... 240 V_{AC}
2	1	Mains cable, 1.5 m
3	1	Connecting cable for management unit
4		User manual (for online download)

Order Information

SHX 30 air/water heat exchanger, 30 kW		Part no.
Water connection at bottom	1 PSU	60714-067
	2 PSUs, redundant power supply	60714-068
Water connection at top and bottom (with condensate pump)	1 PSU	60714-077
	2 PSUs, redundant power supply	60714-078
Accessories		
Cabinet management basic units Height 44 mm, width 251 mm, depth 53 mm, for monitoring one air/water heat exchanger, max. 16 sensor values, 1 piece		EMX111
Cabinet management basic units Height 44 mm, width 440 mm, depth 134 mm, for monitoring up to max. 8 air/water heat exchangers, max 128 sensor values, 1 piece		EMX888
Temperature sensor connects direct to SHX 30, cable length 2 m, 1 piece		60130-724

01013020

01013021

Rear connections at bottom   Rear connections at top

Note
Please order optional management unit separately
- Cabinet management base unit connects via RJ 45 interface
- Web interface
  – Automatic detection of the connected Varistar SHX 30 air/water heat exchangers
  – Inlet temperature of servers (parameter can be set via web interface)
  – Activation/deactivation of air conditioner
  – Set temperature and fan speed settings
  – Monitoring of front air temperature, rear fan speed and water inlet temperature
  – Monitoring of an external temperature sensor (please order separately)

00711017

Management browser representation

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Part number in bold face type: ready for despatch within 2 working days
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N 11

Cabinets – Varistar ServicePLUS containment

SHX 30 air/water heat exchanger

Graph: cold air temperature against cooling capacity

Legend:
- water 8,0 °C
- water 12,0 °C
- water 15,0 °C
- water 17,0 °C
- water 18,0 °C

V_{AIR}=80 %

V_{H2O}=4,4-4.5 m³/h

01013081

1) Cold air temperature
2) Cooling capacity at different cold water temperatures
   Fan speed 100 %
   Maximum water flow rate 4.5 m³/h

Technical data

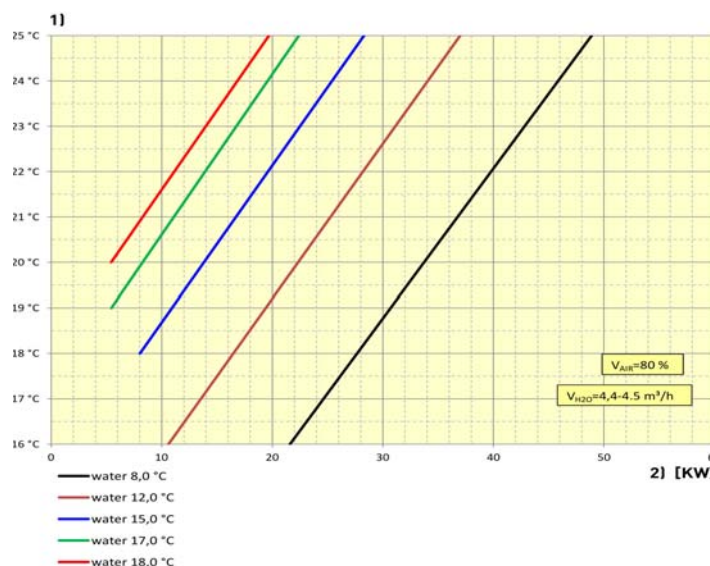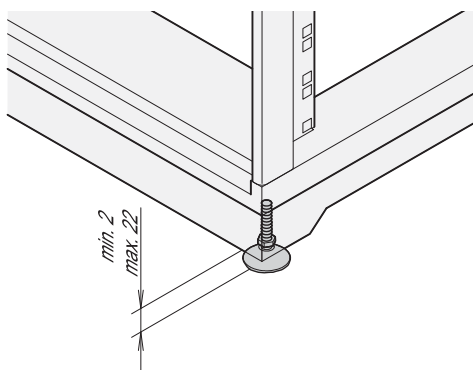| Cooling capacity	
Useful cooling capacity	30 kW
Controlled temperature	18 ... 50 °C (adjustable in 0.1°C steps)
Max. offset emergency cooling of 0-8 K from set value adjustable	4 (factory-preset)

Water circuit	
Cooling medium [*]	Water, water-glycol mix (max. 33%)
Water inlet temperature [**]	6 ... 18 °C
Water flow volume	up to 4,5 m³/h
Pressure loss in device at	3.0 m³/h, max. 1.3 bar; 4.5 m³/h, max. 3.1 bar
Water conduit	Copper
Water connection inlet/outlet	Rp 1"
Condensate drain connection	Rp $^1/_2$"

Air circuit	
Max. airflow volume, temperature-dependent control	5000 m³/h

Electrical data AC	
Supply voltage (single phase)	100 ... 240 V_{AC} (50/60 Hz)
Max. current consumption	6 A / 12 A (230 V / 115 V)
Max. power consumption (fan speed 100%) / Normal operation (fan speed 80 %)	1100 W / 750 W
Pre-fuse (fitted by customer)	D 10 A / D 16 A (230 V/115 V)

Interface	
RS 485 Modbus interface	Connection option for external monitoring system
RS 232 (sub-D 9-pin)	Serial access
Input	External temperature sensor connection point

General data	
Ambient temperature: Transport, storage when fully emptied / when containing 35% glycol / in operation outside cabinet	-25 ... 70 °C / 5 ... 70 °C
Relative humidity for transport and storage (non-condensing)	5 ... 95 %
Heat exchanger dimensions	Height 1849 mm, width 189.5 mm, depth 850 mm
Heat exchanger weight	110 kg
Weight of cabinet with cooling module approx.	370 kg

*) To problem-free operation of the air/water heat exchanger the quality requirements of the water must be maintained; the appropriate anti-corrosion and frost protection agents are dependent on the environment in which the unit is used and on the external chiller (VDI 3803, see also user manual).

**) At water inlet temperatures of <6 °C and >15 °C the control accuracy can no longer be guaranteed. There is also a risk of condensation if the water temperature falls short of the given limits.

N 12

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Part number in bold face type: ready for despatch within 2 working days
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Cabinets – Varistar ServicePLUS containment

Adjustable feet

- Adjustable feet for direct mounting onto frame
- Static load-carrying capacity 1000 kg

NEW

MRA44483

Delivery includes

Item	Qty	Description
1	4	Adjustable feet, St, polyamide, black
2	1	Fixing materials kit

Order Information

Description	Part no.
Adjustable feet	23130-511
Accessories	
Gasketing for adjustable feet Polyurethane foam gasketing, color similar to RAL 7021, length 300 mm, for sealing front and rear, PU 2 pieces	23130-538

Gasketing for adjustable feet
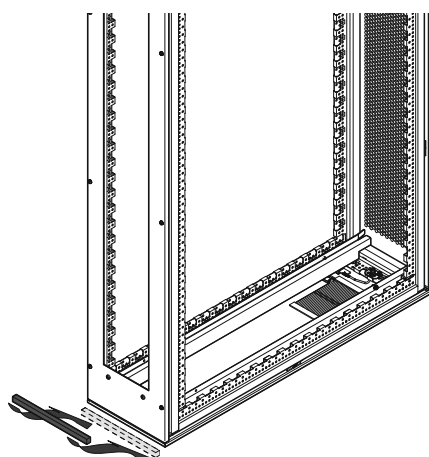
- For horizontal sealing at bottom in containments (front and rear) where adjustable feet are used

NEW

01013070

Delivery includes

Item	Qty	Description
1	2	Gasketing, flexible polyurethane, length 300 mm, color similar to RAL 7021, conforms to UL 94-HF1

Order Information

Description	Part no.
Gasketing for adjustable feet	23130-538

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 13

Cabinets – Varistar ServicePLUS containment

Base/plinth
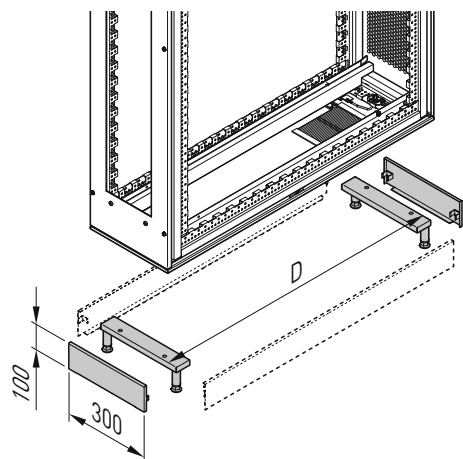
Base/plinth
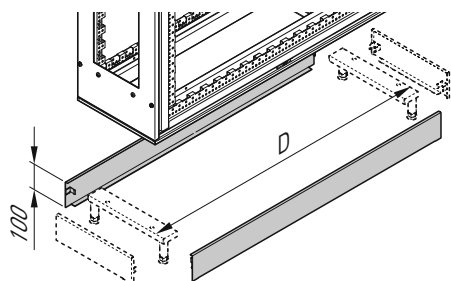
Accessories: Side covers

- Base for 300 mm wide frame (air/water heat exchanger)
- Base is bolted to the frame at front and rear; please order side trims separately

NEW

Delivery includes

Item	Qty	Description
1	2	Base, St, 1.5 mm; with integrated adjustable feet, width 300 mm, color RAL 7021
2	1	Fixing materials kit

Order Information

Height mm	Width mm	Part no.
100	300	23130-507
Accessories		
Side trim RAL 7021, St, 1.5 mm, height 100 mm, depth 1000 mm, PU 2 pieces		**23130-172**
Side trim RAL 7021, St, 1.5 mm, height 100 mm, depth 1200 mm, PU 2 pieces		23130-363

N 14

E Main Catalog
E   02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

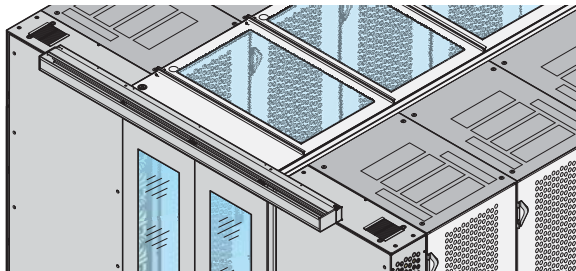# Cabinets – Varistar ServicePLUS containment

Width 300 mm

Width 200 mm, for fitting beside the "sliding door, mechanical" only

Top cover element for aisle containment (SHX 30 air/water heat exchanger)

- Suitable for an aisle width of 1200 mm

- Width 300 mm (when fitting directly beside the "Sliding door, mechanical" a 200 mm width must be used)

- Top cover can be removed from inside (allows access to lighting and facilitates maintenance works)

- The universal top cover profile enables the aisle height to be raised by 84 mm and cabinets with other heights can also be integrated. Please order separately

NEW

Delivery includes

Item	Qty	Description
1	1	Top cover, St, 2 mm, RAL 7021, plate length 1200 mm
2	1	Fixing materials kit

Order Information

Width mm	Description	Part no.
300	For cabinet width 300 mm (aisle width 1200 mm)	21130-648
200	For fitting directly beside "sliding door, mechanical" (cabinet width 300 mm, aisle width 1200 mm)	21130-649
Accessories		
Raised top cover Al extrusion, RAL 7021, length 2400 mm, height 84 mm, PU 2 pieces; Raises top cover elements by 84 mm and allows integration of cabinets with other heights		21130-594
Assembly kit Mounting of top cover raising profile, PU 6 pieces		23130-433
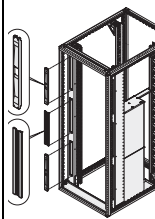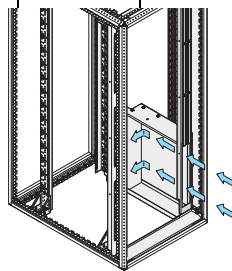
E Main Catalog
E   02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 15

Cabinets – Varistar ServicePLUS containment

Airflow for side-to-side-cooled switches

Order Information

No.	U	mm	Aisle height (lower edge) mm	Raising elements	Basic kit for Cisco switches Air circulation from right to left	Switch 4503	Switch 4506	Switch 4507	Switch 4510	Switch 6506	Switch 6509	Switch 6513
	For cabinet height H							Side trims for Cisco switches				
					PU 1 kit	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece
1			2018	Adjustable feet								
2			2102	Adjustable feet + raised top cover								
3	42	2000	2108	Base/plinth	21130-646	23130-490	23130-491	23130-492	23130-493	23130-494	23130-495	23130-496
4			2192	Base/plinth + raised top cover								
5			2218	Adjustable feet								
6			2302	Adjustable feet + raised top cover								
7	47	2200	2308	Base/plinth	21130-647	23130-490	23130-491	23130-492	23130-493	23130-494	23130-495	23130-496
8			2392	Base/plinth + raised top cover								

Bezels, top cover and base plate for Cisco side trims

01013060

01012070

AlZn, 1 mm; multiple side plates can be fitted one above another; in all cases only one basic kit is required

01012051

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

Basic kit for side-to-side-cooled switches
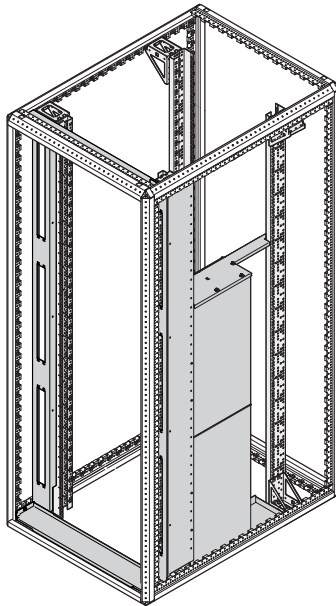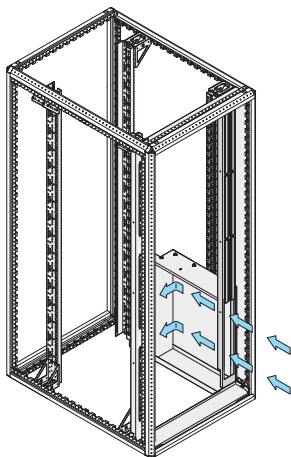
- Basic kit to divide the 19" plane in the front part of the cabinet and to accept side trims for switches
- For 800 mm wide VARISTAR cabinets
- with 145 mm recessed 19" plane
- Right front bezel with 5 x air inlets; air inlets that are not required can be closed with easy-to-cut gasketing material
- Left front bezel for back-to-back cabling with 3 x 19"/1 U cut-outs (please order brush strips and filler panels separately)
- Kit can also be retrofitted to cabinets already installed in rows

NEW

01013067

Delivery includes

Item	Qty	Description
1	2	Front frame, St, 1 mm, RAL 7021 (for top and bottom)
2	1	Cover, left, St, 1 mm, RAL 7021 (3 openings)
3	1	Cover, right, St, 1 mm, RAL 7021 (5 openings)
4	1	Base, St, 1 mm, AlZn, for Cisco side trim
5	1	Top cover, St, 1 mm, AlZn, for Cisco side trim
6	6	Gasketing (can be cut as required for air inlets)
7	1	Fixing materials kit, gasketing, user manual

Order Information

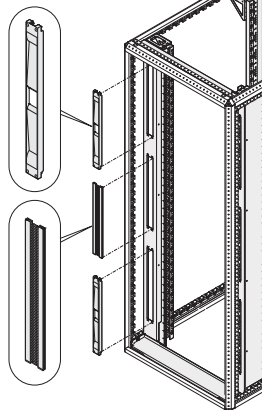| For cabinet height		For cabinet width	Part no.
U	mm	mm	
42	2000	800	21130-646
47	2200	800	21130-647
Accessories			
Side trims for Cisco switches for Cisco Switch 4503, side trim AlZn, 1 mm, 1 kit			23130-490
Side trims for Cisco switches for Cisco Switch 4506, side trim AlZn, 1 mm, 1 kit			23130-491
Side trims for Cisco switches for Cisco Switch 4507, side trim AlZn, 1 mm, 1 kit			23130-492
Side trims for Cisco switches for Cisco Switch 4510, side trim AlZn, 1 mm, 1 kit			23130-493
Side trims for Cisco switches for Cisco Switch 6506, side trim AlZn, 1 mm, 1 kit			23130-494
Side trims for Cisco switches for Cisco Switch 6509, side trim AlZn, 1 mm, 1 kit			23130-495
Side trims for Cisco switches for Cisco Switch 6510, side trim AlZn, 1 mm, 1 kit			23130-496
Clip-on 19" plastic front panels to close the open cable through-ducting opening of the lateral cladding parts 1 U, black, PU 10 pieces			**D19BPT1RU**
Brush strip for closing the open cable through-ducting opening 1 U, black, 1 kit			23130-153

Cisco switches side trims

01013066

19" plastic front panels, brush strips to close cable ducting openings

01013060

Note

- Please order appropriate quantity and suitable Cisco switch side trims separately
- Cover for lateral cable through-ducting openings (please order brush strip and 19" front panel separately)

E Main Catalog
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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 17

Side trims for Cisco switches
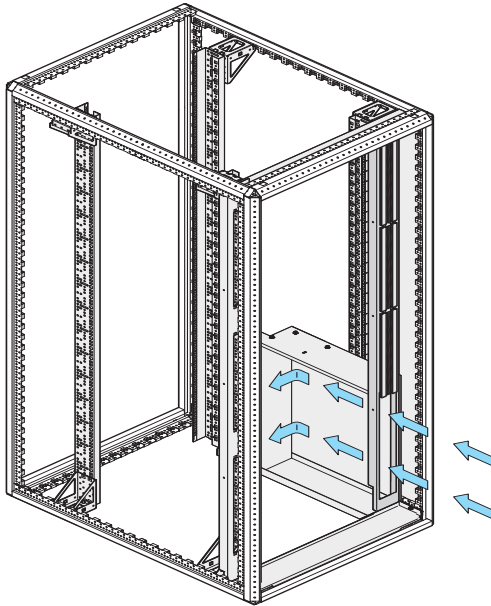
Cisco switches side trims
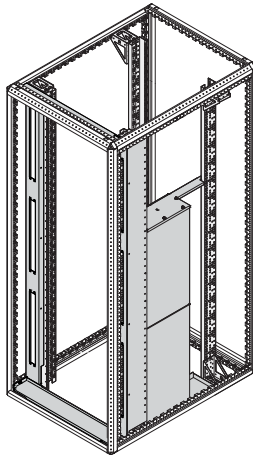
01013066

Application: Cabinet with two airflows one above the other, with Cisco side trims for airflow from right to left

01013067

- Side trim must be selected on the basis of the switch version used
- With the basic kit, multiple Cisco side trims can be mounted above one another to suit cabinet height

NEW

Delivery includes

Item	Qty	Description
1	1	Side trim, AlZn, 1 mm
2	1	Fixing materials kit

Order Information

Description	Height mm	Width mm	Depth mm	Part no.
Cisco Switch 4510	630.5	90.0	198.4	23130-493
Cisco Switch 4506	452.7	90.0	198.4	23130-491
Cisco Switch 4503	319.4	90.0	198.4	23130-490
Cisco Switch 4507	497.3	90.0	198.4	23130-492
Cisco Switch 6513	852.8	90.0	341.3	23130-496
Cisco Switch 6509	630.5	90.0	341.3	23130-495
Cisco Switch 6506	497.1	90.0	341.3	23130-494

Note

- Side trims for other switches available on request

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 19

Cabinet Accessories – Socket strips

Socket strips with 2 supply cables, SCHUKO and IEC, 3 phase
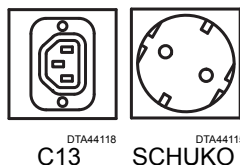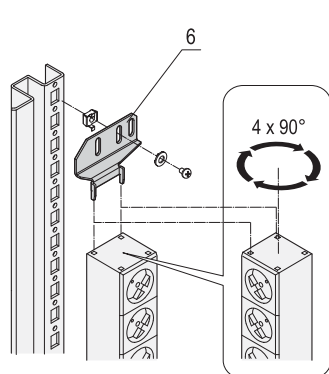
- Socket strips with IEC 60320-C13 sockets and SCHUKO sockets

- Mounting height 1 U

- Two connector cables (halved in direction of length), 3 m (with open end), 2 x 3 phase, 400 V_{AC} (red, black, white area)

- Socket strips can be rotated in all directions (in 90° increments) during installation

- Horizontal and vertical assembly possible

CE

NEW

00712005   DTA44118   DTA44115
C13   SCHUKO

6

4 x 90°

5

4 x 90°

00704051

Delivery includes

Item	Qty	Description
1	1	Al extrusion, 1 U, anodized, for socket inserts
2		Socket inserts, IEC 60320 (PA, RAL 7035), type and quantity see Order information
3	2	Endpiece, PA, RAL 7035
4	1	Connector cable, 2 x 2 m, open cable end for laying

Order Information

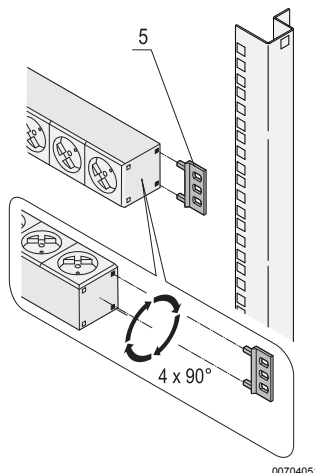| Input	Length mm	Depth mm	Output	Part no.
400 V_{AC}, 16 A	1848.5	44	36 x IEC C13 + 12 x SCHUKO	**60110-286**
400 V_{AC}, 16 A	1848.5	44	48 x IEC C13	**60110-287**
Delivery: fitted in cabinet or on frame				**Part no./05**
Delivery: supplied loose with cabinet or frame				**Part no./35**

Note

- Fixing bracket for vertical mounting, only required for fitting into 47 U cabinet, please order separately

ServicePLUS see page 3.72

For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Part number in bold face type: ready for despatch within 2 working days
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Climate control – Accessories

Thermostat with integrated temperature sensor

01102008

- To control heaters or fans
- Adjustment range 5 ... 60 °C

Delivery includes

Item	Qty	Description
1	1	Thermostat with clip-on attachment for 35 mm DIN rail EN 50022, voltage 200 ... 250 V_{AC} and 100 ... 130 V_{AC}
2	1	Support rail, length 200 mm
3	1	Connection cable, length 1.5 m
4	1	Strain relief
5	1	Assembly kit for cabinet assembly

Order Information

Item	Description	Part no.
1 ... 5	Thermostat with integral temperature sensor incl. mounting kit	**20715-002**
1	Thermostat with integrated temperature sensor	**60715-001**

Technical data

Dimensions	Height: 75 mm, width: 75 mm, depth: 25 mm
Adjustment range	5 ... 60 °C
Switch difference	0,5 K
Supply voltage	200 ... 250 V_{AC}
Contact load (ohmic load/inductive load)	Heat (terminals 1 - 2) 10 A / 4 A Cool (terminals 1 - 3) 5 A / 2 A
Contacts	Changeover contact, single pole
Type of assembly	Bolt-on, snap mounting for slide rail

For further information www.schroff.biz/oneclick
oneClick search code = Part no.

See in new pdf catalog, page 4.63

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

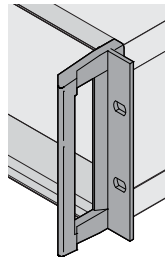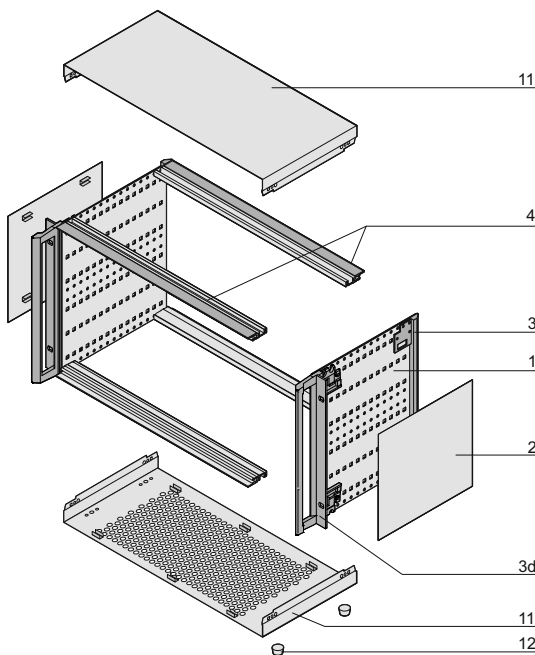**N 21**

RatiopacPRO case

01813001

Photo shows case, 3 U, 84 HP, 315 mm deep

01813051

3d: 19" mounting bracket with front handle

- Cases for individual assembly with 19" standard components or specific internal mounting, e.g. with mounting plate
- Unshielded (EMC shielding retrofittable)
- Symmetrical design, identical front and rear side
- 19" mounting brackets with front handles
- For board depth 160 mm, 220 mm, 280 mm, and 340 mm (depending on case depth)
- Online download of 3D CAD data

Delivery includes (kit)

Item	Qty	Description
1	2	Side panel, Al, 2 mm, chromated
2	2	Side plate, Al, 1 mm, visible surfaces powder-coated, RAL 9006
3	2	Rear trim, Al die-cast, powder-coated, RAL 7016
3d	2	19" mounting bracket with handle, Al diecast, powder-coated, RAL 7016
4	4	Horizontal rail, type H-LD, Al, visible surfaces powder-coated, RAL 7016
11	2	Top cover and base plate, Al, 1 mm, inner sides conductive, visible surfaces powder-coated, RAL 9006, with GND/earthing connections, base plate with honeycomb grid ventilation
12	4	Case foot with anti-slip protection, UL 94 V-0, PC black
13	1	Fixing materials kit

Note

- Order information, see following page

01813062

For further information www.schroff.biz/oneclick
oneClick search code = Part no.

01813055

ServicePLUS see page 5.4

N 22

E Main Catalog
E   02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

				RatiopacPRO case		

	Width W HP	Depth D mm	Case height H			
			2 U Part no.	Part no.	Part no.	Part no.
19" mounting brackets with front handles	84	255.5	24572-620	**24572-630**	**24572-640**	24572-660
	84	315.5	**24572-623**	**24572-633**	**24572-643**	**24572-663**
01813051	84	375.5	**24572-624**	**24572-634**	**24572-644**	**24572-664**
	84	435.5	**24572-625**	**24572-635**	**24572-645**	**24572-665**
	84	495.5	24572-626	**24572-636**	**24572-646**	24572-666

Note

■ Dimension drawings and mounting depths see page 5.9

■ Components see page 5.18

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 23

Electronics cases – *ratiopac PRO*

RatiopacPRO air case

06801005

- The case has 2 x 1/2 U clearances for ventilation beneath and above the board cage
- Cases for individual assembly with 19" standard components or specific internal mounting, e.g. with mounting plate
- Unshielded (EMC shielding retrofittable)
- Symmetrical design, identical front and rear side
- With 19" mounting brackets and front handles
- For board depth 160 mm, 220 mm, 280 mm, and 340 mm (depending on case depth)
- Online download of 3D CAD data

Photo shows case, 4 U, 84 HP, 375 mm deep   06813002

3d: 19" mounting bracket with front handle   01813057

Delivery includes (in kit form)

Item	Qty	Description
1	2	Side panel, Al, 2 mm, chromated
2	2	Side plate, Al, 1 mm, visible surfaces powder-coated, RAL 9006
3	2	Rear trim, Al die-cast, powder-coated, RAL 7016
3d	2	19" mounting bracket with handle, Al diecast, powder-coated, RAL 7016
4	4	Horizontal rail, type H-LD, Al, visible surfaces powder-coated, RAL 7016
11	2	Top cover and base plate, Al, 1 mm, internal surfaces conductive, visible surfaces powder-coated, RAL 9006, with GND/earthing connection, top cover and base plate with ventilation comb
12	4	Case foot with anti-slip protection, UL 94 V-0, PC black
13	2	Air filters
14	1	Fixing materials kit

Note

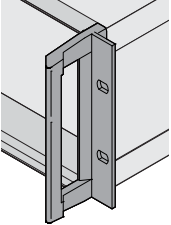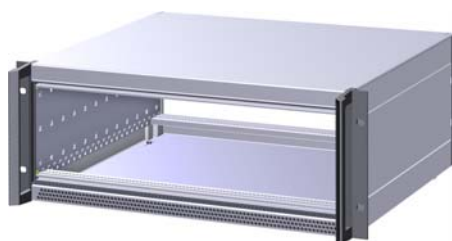- Order information see following page

01813062

For further information www.schroff.biz/oneclick
oneClick search code = Part no.
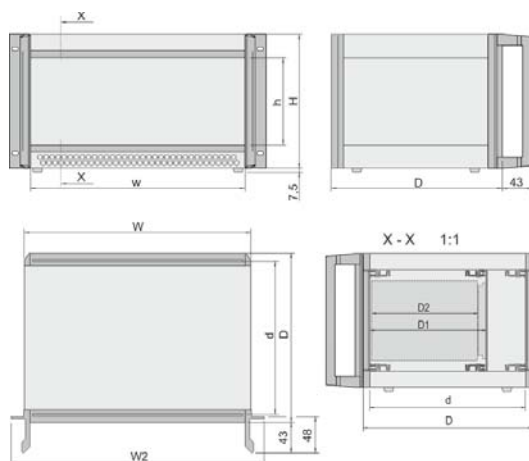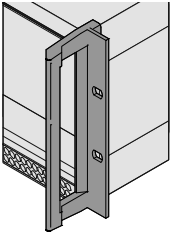
01813061

ServicePLUS see page 5.4

Desk-top cases – *ratiopacPRO*

RatiopacPRO air case

	Width W	Depth D	Case height H	
			4 U	**7 U**
			PCB height h	
	HP	**mm**	**Part no.**	**Part no.**
With 19" mounting brackets and front handles	84	255.5	**24572-670**	24572-690
	84	315.5	**24572-673**	**24572-693**
	84	375.5	**24572-674**	**24572-694**
	84	435.5	**24572-675**	**24572-695**
	84	495.5	**24572-676**	24572-696

01805057

Note

■ Dimension drawings and mounting depths see page 5.16

■ Components see page 5.18

19" mounting bracket with front handle for conversion

■ For conversion of cases with cover strip, front handle or 19" mounting bracket

Delivery includes

Qty	Description
2	19" mounting bracket with front handle, Al diecast, powder-coated, RAL 7016

Order Information

19" mounting angle	Part no.
RatiopacPRO 2 U	**24572-700**
RatiopacPRO 3 U	**24572-701**
RatiopacPRO 4 U	**24572-702**
RatiopacPRO 6 U	**24572-704**
RatiopacPRO air 4 U	**24572-705**
RatiopacPRO air 7 U	**24572-707**

01813056

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 25
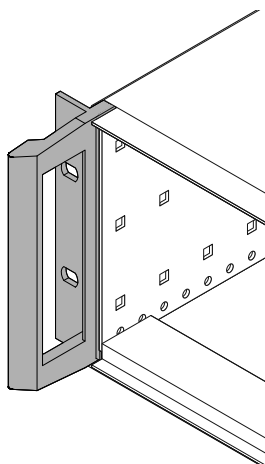
Subracks – Retention parts

Torx screwdriver
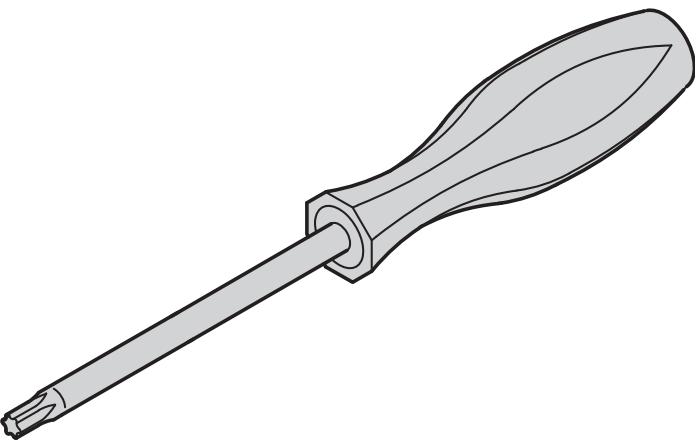
- To fix the top cover locking

Order Information

Description	Description	Qty/PU piece	Part no.
Torx screwdriver T 10 Torx	T10, to fix the top cover locking, 1 piece	1	**64560-230**

See in new pdf catalog, page 6.68

aza45925

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

Cover strips to cover the horizontal rail perforations

Illustration shows with cover strips (left) and without (right)

06113002
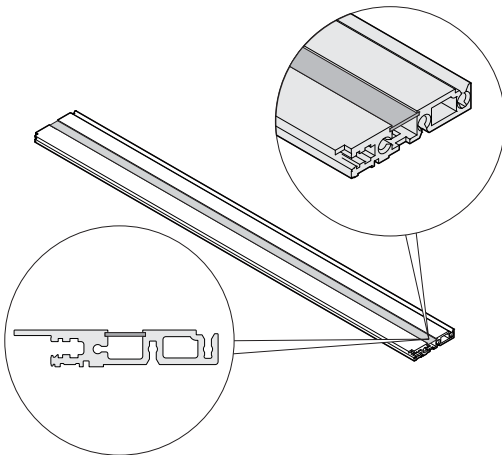
- Cover strip to cover perforations of horizontal rail to prevent drops falling (e.g. from plastic parts) in event of fire
- Conforms to IEC 60950 (safety standard)
- Cover strip is inserted into the front, "rugged" horizontal rail

NEW

Delivery includes

Item	Qty	Description
1	1	Cover strip, Al, untreated, 0.8 mm, length 431.5 mm

Order Information

Length mm	Qty	Part no.
431.5	1 piece (SPQ 10)	**34566-184**

Delivery is exclusively made in Standard Pack Quantity (SPQ): Please order at least 10 pieces or a multiple. Pricing is per individual item.

For further information www.schroff.biz/oneclick oneClick search code = Part no.

See in new pdf catalog, page 6.99

06113051

19" dual fixing materials kit

4

1

2 / 3

2 / 3
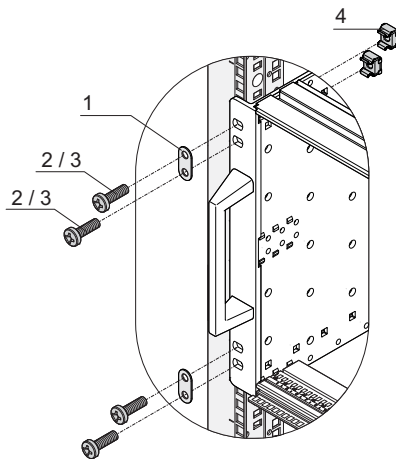
06113052

- For fixing a subrack with dual fixing holes to 19" mounting brackets (e.g. rugged and railroad subracks)
- Online download of 3D CAD data

NEW

Delivery includes

Item	Qty	Description
1	4	Double washer, stainless steel
2	8	M6 x 16 (Torx 30 drive)
3	8	M6 x 16 (Pozidrive)
4	8	Cage nut KM6
1	4	User manual

Order Information

Description	Part no.
19" dual fixing materials kit	**24566-109**

See in new pdf catalog, page 3.17
See in new pdf catalog, page 6.104

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 27

Adapter for rear attachment of a subrack (DL3 standard) in a cabinet
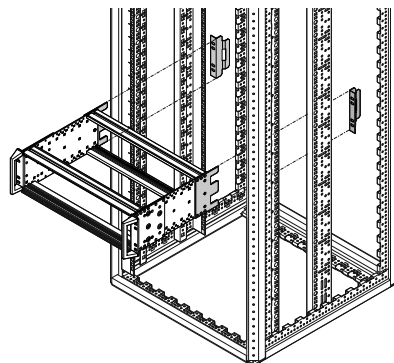
■ Guarantees vibration resistance up to 25 *g* as per IEC 61587 DL3

■ Mounts to rear of rugged subrack and to VARISTAR cabinet uprights

■ Adapters for other cabinet models on request

■ Online download of 3D CAD data

NEW

06113054

Delivery includes

Item	Qty		Description
	3 U	6 U	
1	2	4	Bracket, 3 U, St, 1.5 mm, AlZn; mounts to VARISTAR cabinet
2	2	2	Plate, Al, 3 mm, anodized; mounts to subrack
3	1	1	Fixing materials kit (19" dual fixing, adapter mounting, rugged subracks); user manual
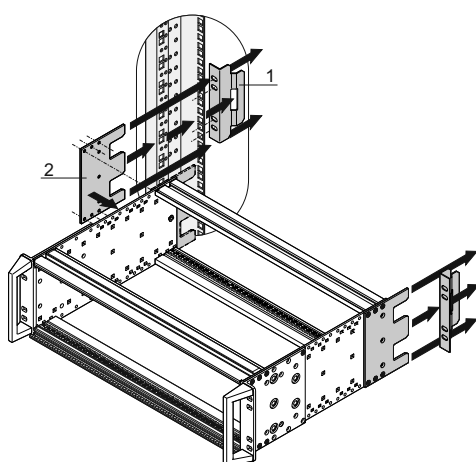
Order Information

Height U	Part no.
3	**24568-198**
6	**24568-498**

Note

■ Adapter cannot be used together with corner profile

06113053

EMC gasketing for 19" complete chassis in steel plate
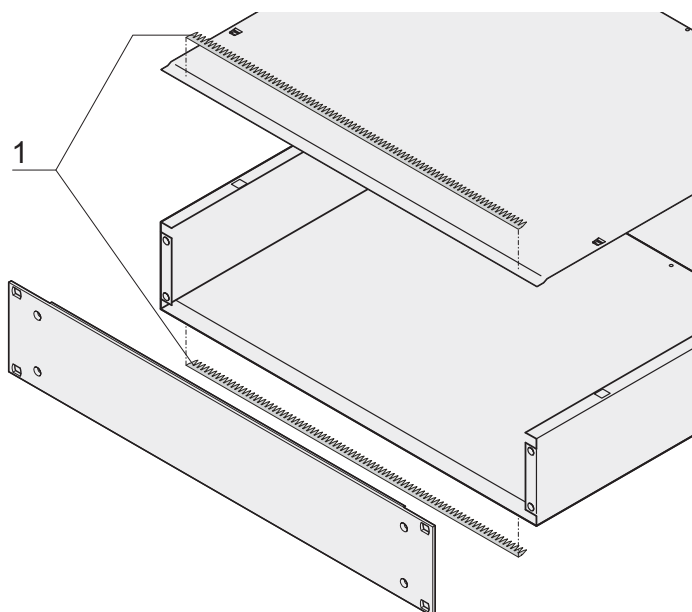
06013050

- EMC sealing increases shielding of the complete 19" chassis (steel plate/AlZn) to above 40 db(A) at 1 GHz
- EMC seals close the gap at the front (top and bottom) between the enclosure and the front panel; for this purpose sawtooth gasketing is affixed to the top cover and base plate

NEW

Delivery includes

Item	Qty	Description
1	2	Sawtooth gasket, stainless steel
2	1	User manual

Order Information

Description	Part no.
EMC gasketing for 19" complete chassis in steel plate	**20860-132**

Note

- EMC test report of the complete steel plate 19" chassis is available online

For further information www.schroff.biz/oneclick
oneClick search code = Part no.

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Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 29

Kits
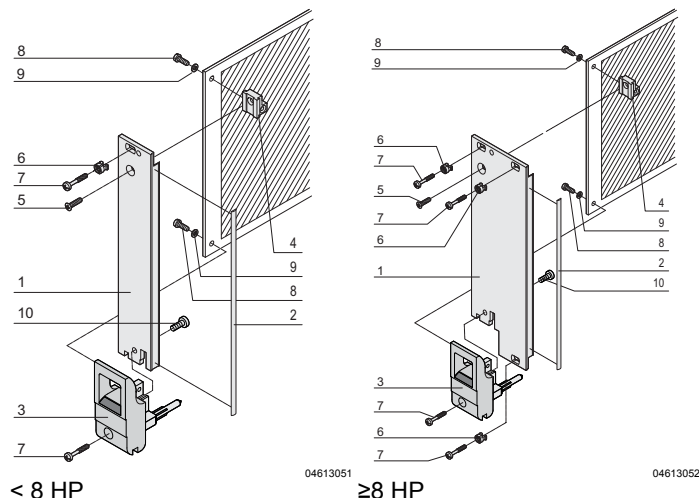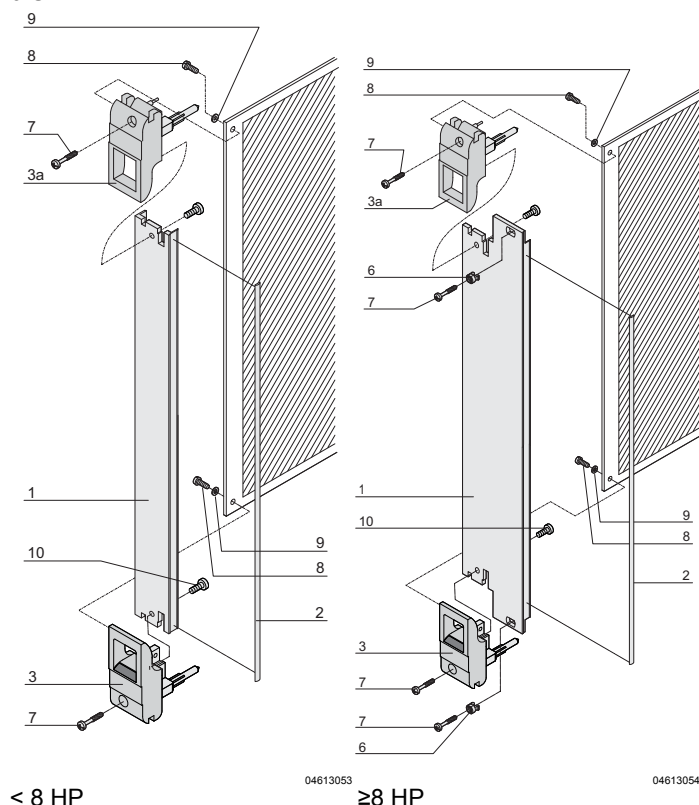
Plug-in units with IET insertion/extractor handle for CompactPCI/VME64x applications

3 U

< 8 HP

04613051

≥8 HP

04613052

6 U

< 8 HP

04613053

≥8 HP

04613054

- ■ Suitable for insertion and extraction forces up to 700 N (per pair)
- ■ Version for telecoms applications
- ■ To IEEE 1101.10 and IEC 60297-3-102
- ■ Codable to IEC 60297-3-103/ IEEE 1101.10
- ■ Front panel, shielded (3 U, 6 HP)
- ■ designed for fitting of microswitches
- ■ Online download of 3D CAD data

NEW

Delivery includes (Kit)

Item	Qty				Description
	3 U		**6 U**		
	<8 HP	≥8 HP	<8 HP	≥8 HP	
1	1	1	1	1	Front panel (U profile), Al, front anodized, rear conductive
2	1	1	1	1	EMC sealing (textile), core: foam, sleeve: textile cladding, CuNi coated
3	1	1	2	2	Handle with integrated alignment pin for perforated strips and guide rails, lever: plastic, PC, black, RAL 9005 Key: Plastic, PC, light gray, RAL 7035
4	1	1	-	-	Board support, die-cast zinc
5	1	1	-	-	Raised Pozidrive countersunk screw M2.5 × 8, St, nickel-plated
6	1	3	-	2	Sleeve, PA, gray
7	2	4	2	4	Pozidrive collar screw, M2.5 × 12.3, St, nickel-plated
8	2	2	2	2	Panhead screw with Torx/slot, M2.5 × 6, St, zinc-plated, self-locking
9	2	2	2	2	Washer A2.7, DIN 125, St, nickel-plated
10	1	1	2	2	Panhead screw with Torx, M2.5 × 7, St, nickel-plated

Order Information

Width HP	Part no.
3 U Height	
4	**20848-763**
8	**20848-764**
12	**20848-765**
6 U Height	
4	**20848-766**
8	**20848-767**
12	**20848-768**
Accessories	
Coding peg, PC, UL 94 V-0, grey, RAL 7035 PU 100 pieces	**20817-501**
Microswitch for handles, CompactPCI/VME64x application PU 10 pieces	**20817-606**

- ■ For description of coding peg and microswitch see page 7.23
- ■ Description of microswitch see page 7.29

N 30

E Main Catalog
E 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

Plug-in units with XL insertion/extractor handle for CompactPCI, VME64x, VXS and VPX applications
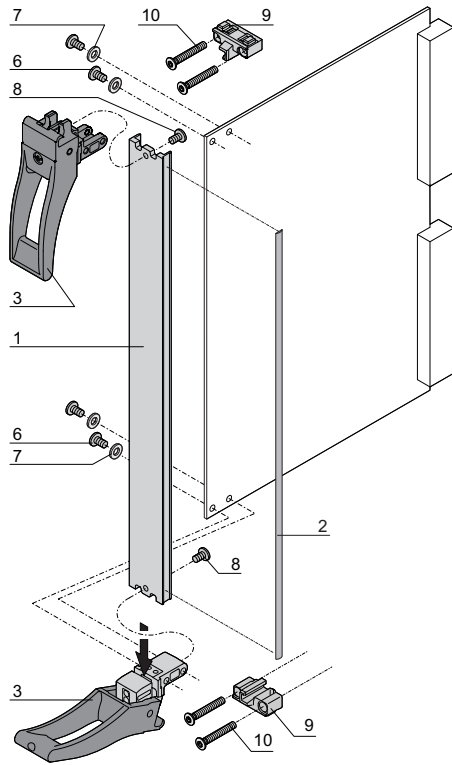
< 8 HP

04613055
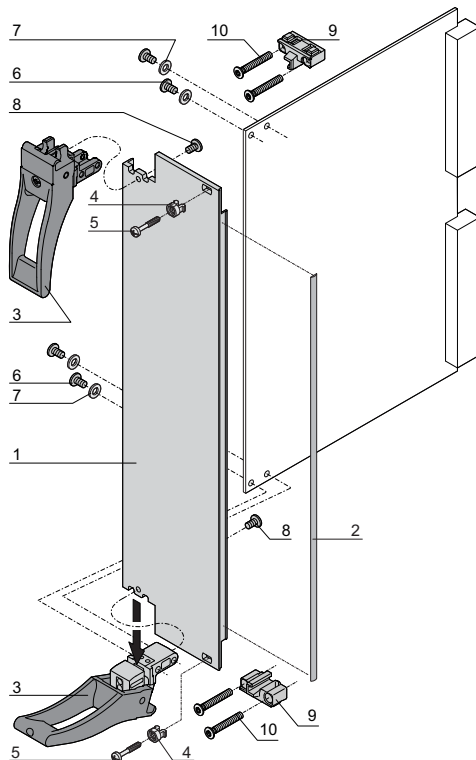
≥8 HP

04613056

- Suitable for insertion and extraction forces up to 1500 N (per pair)
- To IEEE 1101.10 and IEC 60297-3-102
- Codable to IEC 60297-3-103/ IEEE 1101.10
- Front panel, shielded (6 U)
- Versions allowing microswitches to be fitted on request
- Online download of 3D CAD data

NEW

Delivery includes (Kit)

Item	Qty		Description
	<8 HP	≥8 HP	
1	1	1	Front panel (U profile), Al, front anodized, rear conductive
2	1	1	EMC sealing (textile), core: foam, sleeve: textile cladding, CuNi coated
3	2	2	Handle with integrated alignment pin for perforated strips and guide rails, lever: plastic, PC, black, RAL 9005 Key: Plastic, PC, light gray, RAL 7035
4	-	2	Sleeve, PA, gray
5	-	2	Pozidrive collar screw, M2.5 × 12.3, St, nickel-plated
6	4	4	Panhead screw with Torx/slot, M2.5 × 6, St, zinc-plated, self-locking
7	4	4	Washer A2.7, DIN 125, St, nickel-plated
8	4	4	Pan head screw with torx M2.5 × 7, St, zinc-plated
9	1	1	XL bearing, zinc diecast, nickel-plated
10	4	4	Countersunk screw with torx M2.5 × 17, St, zinc-plated

Order Information

Width HP	Part no.
6 U Height	
4	**20848-769**
8	**20848-770**
12	**20848-771**

- Dimension drawing of front profile, see page 7.30

E Main Catalog
E / 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 31

AdvancedTCA 300/40 series, 6 slot, AC

12713001

- 40 G backplane with 6 slots, dual star topology, bussed and radial IPMI
- 300 W cooling capacity per slot at an ambient temperature of 55 °C
- 200 ... 240 V_{AC} input voltage, 2 x IEC 320-C20 AC mains plugs (please order AC plug-in power supply units separately)
- Two hot swap fan trays, airflow from right to left (push/pull cooling), air filter exchangeable from front
- 2 shelf managers and 1 SAP (shelf alarm panel) can be installed
- UL recognized, E229721 type T11
- Conforms to AdvancedTCA Standard PICMG 3.0 rev.3.0

NEW

12708006
Accessories: optional shelf manager

ServicePLUS see page 8.112

PICMG
Open Modular
Computing Specifications

Delivery includes (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" plug-in unit system, St, zinc-plated, 6 U, 84 HP, 462 mm deep, front with overlays, black, RAL 9005; 6 horizontal slots at front (8 U, 6 HP, 280 mm deep), 6 horizontal slots at rear (8 U, 6 HP, 70 mm deep)
2	1	Backplane, 6 slots
3	1	AC mains input via 2 x IEC 320-C20 AC mains plugs, 2 slots for 2.7 kW plug-in power supply units for 1+1 redundancy, internal AC and DC power distribution with power status LEDs
4	2	Fan tray, replaceable from front
5	2	Air filter, can be changed from the front

Order Information

AdvancedTCA system	Backplane	Part no.
AdvancedTCA 300/40 series, 6 slot, AC	Triple replicated mesh, bussed IPMB	11990-060
	Triple replicated mesh, radial IPMB	11990-061

Accessories	
Shelf manager (bussed) 1 piece - page 8.18	**21596-300**
Shelf manager (radial) 1 piece - page 8.18	**21596-301**
Plug-in power supply unit, AC/DC, 2.7 kW for AdvancedTCA AC systems 1 piece	**21990-286**
Shelf alarm panel 1 piece	**21596-077**
Front panels and handles	**Seite 8.12**
AdvancedMC carriers	**Seite 8.26**

Note

- Modified systems available on request

N 32 E Main Catalog
E 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

Systems – AdvancedTCA

AdvancedTCA 300/40 series, 14 slot, AC

12713003

- 40 G backplane with 14 slots, dual star topology, bussed and radial IPMI

- 300 W cooling capacity per slot at an ambient temperature of 55 °C

- 200 ... 240 V_{AC} input voltage, three IEC 320-C20 AC mains plugs (please order AC plug-in power supply unit separately); 3 slots for 3 plug-in PSUs for 2 + 1 redundancy operation

- Redundant hot-swap fan trays, airflow from bottom front to top rear; air filter exchangeable from front

- Shelf alarm panel (SAP) and shelf alarm display (SAD)

- Prepared for two Schroff shelf managers with Pigeon Point ShMM 500 for bussed or radial IPMB

- UL recognized, E229721 type T10

- Conforms to AdvancedTCA Standard PICMG 3.0 rev.3.0

NEW

Accessories: optional shelf manager 12708006

Top fan shelf, pull cooling 12709051

ServicePLUS see page 8.112

PICMG®
Open Modular Computing Specifications

Delivery includes (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" plug-in units, St, zinc-plated, 14 U, 84 HP, 472 mm deep, powder coated, black, RAL 9005; 14 vertical slots at front (8 U, 6 HP, 280 mm deep), 14 vertical slots at rear (8 U, 6 HP, 70 mm deep); cable channel on front and rear
2	1	Backplane, 14 slots
3	1	AC mains input via 3 x IEC 320-C20 AC mains plugs, 3 slots for 2.7 kW plug-in power supply units for 2 + 1 redundancy, internal AC and DC power distribution with power status LEDs
4	1	Fan unit, top; 3 redundant fan trays providing 400 m³/h (230 cfm) each, with 2 fans each to cool the front and rear I/O boards; exchangeable from rear
5	1	Air filter, can be changed from the front
6	1	Shelf alarm panel (SAP)
7	1	Shelf alarm display (SAD)
8	2	Mounting bracket, for assembly in 19" cabinets

Order Information

AdvancedTCA system	Backplane type	Part no.
AdvancedTCA 300/40 series, 14 slot, AC	Dual Star, bussed IPMB	**11990-604**
	Dual Star, radial IPMB	11990-605
Accessories		
Shelf manager (bussed) 1 piece - page 8.18		**21596-300**
Shelf manager (radial) 1 piece - page 8.18		**21596-301**
Plug-in power supply unit, AC/DC, 2.7 kW for AdvancedTCA AC systems 1 piece		**21990-286**
Cable RJ 45 Cat 5 plug - D-Sub plug, 9-pin, length 2 m, 1 piece		**23204-187**
Shelf alarm panel 1 piece		**21596-077**
Front panels and handles		**Seite 8.12**
AdvancedMC carriers		**Seite 8.26**

Note

- Modified systems available on request

E Main Catalog
E 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 33

AdvancedTCA 450/40 series, 14 slot, DC

12711001

- 40 G backplane with 14 slots, dual dual star topology, bussed and radial IPMI

- 450 W cooling capacity per slot at an ambient temperature of 55 °C

- -48 V_{DC}/-60 V_{DC} input voltage, two redundant power entry modules (PEM)

- 2 redundant hot-swap fan trays in push-pull configuration, airflow from bottom front to rear top, air filter replaceable from front

- Telco alarm panel integrated in the bottom fan drawer

- Prepared for two Schroff shelf managers with Pigeon Point ShMM 500 for bussed and radial IPMB

- UL recognized, E229721 type T08 (registered)
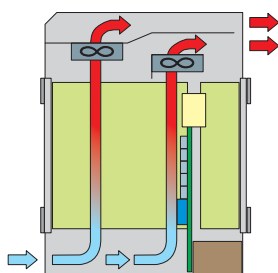
- Conforms to AdvancedTCA Standard PICMG 3.0 rev. 3.0

NEW

12708006

Accessories: optional shelf manager

12712050

Top and bottom fan shelf, push/pull cooling

ServicePLUS see page 8.112

PICMG
Open Modular
Computing Specifications

Delivery includes (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" plug-in units, St, zinc-plated, 14 U, 84 HP, 383 mm deep, powder coated, black, RAL 9005; 14 vertical slots at front (8 U, 6 HP, 280 mm deep), 14 vertical slots at rear (8 U, 6 HP, 70 mm deep); cable channel on front and rear
2	1	Backplane, 14 slots
3	2	Redundant power entry module (PEM) -40 V_{DC}... -72 V_{DC}, inserted at rear, for 2 pairs of lines per input
4	1	Fan tray at top with 6 fans, each 565 m^3/h (336 cfm)
5	1	Fan tray at bottom with 6 fans, each 565 m^3/h (336 cfm)
6	1	Telco alarm panel integrated in the bottom fan drawer
7	1	Air filter, can be changed from the front
8	2	Mounting bracket, for assembly in 19" cabinets

Order Information

AdvancedTCA system	Backplane type	Part no.
AdvancedTCA 450/40 series, 14 slot, DC	Dual dual star, radial IPMB	11990-103
	Dual dual star, bussed IPMB	11990-102
Accessories		
Shelf manager (bussed) 1 piece - page 8.18		**21596-300**
Shelf manager (radial) 1 piece - page 8.18		**21596-301**
Cable RJ 45 Cat 5 plug - D-Sub plug, 9-pin, length 2 m, 1 piece		**23204-187**
Front panels and handles		**Seite** 8.12
AdvancedMC carriers		**Seite** 8.26

Note

- Modified systems available on request

N 34

E Main Catalog
E 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

AdvancedTCA 450/40 series, 2 slot, AC and DC

Front view

12713007

Rear view

12713008
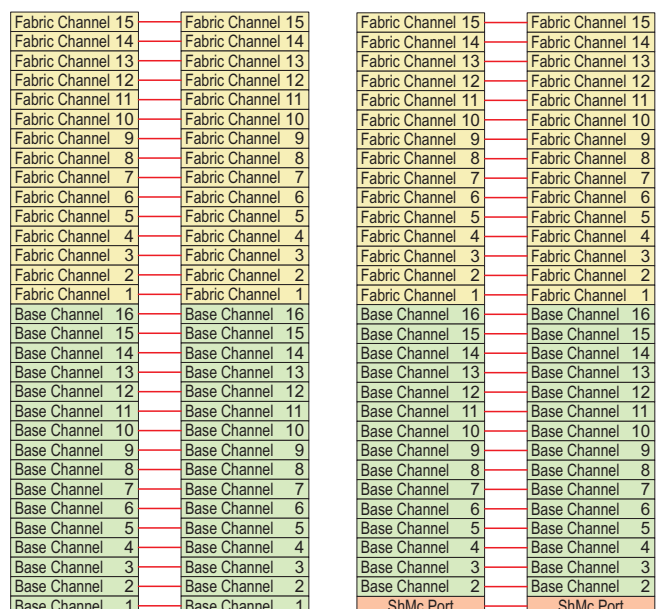
- 40 G backplane with 2 slots, 15-way connected fabric interface;
  - Hub/hub configuration, bussed IPMB, base channel 1 cross connected to shelf managers, base channels 2-15 connected directly to one another
  - Node/node configuration, bussed IPMB, base channels are connected

- 450 W cooling capacity per slot at an ambient temperature of 55 °C

- Input voltage
  - -48 V_{DC}/-60 V_{DC}, two redundant power entry modules (PEMs), optionally equipped with 2 redundant AC PEMs
  - 115 V_{AC}/ 230 V_{AC}, two redundant AC power entry modules (PEMs), 1200 W each (1000 W at 110 V), optionally equipped with 2 redundant DC PEMs

- Two hot swap fan trays, airflow from right to left (push/pull cooling), air filter exchangeable from front

- Prepared for one shelf alarm panel and two Schroff shelf managers with Pigeon Point ShMM 500 for bussed IPMB

- UL recognized

- Conforms to AdvancedTCA Standard PICMG 3.0 rev. 3.0

NEW

Delivery includes (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" plug-in unit system, St, 3 U, 84 HP, 385 mm deep; powder coated, black, RAL 9005; with 2 horizontal slots at front, 8 U, 6 HP, 280 mm deep and 2 horizontal slots at rear, 6 HP, 70 mm deep
2	1	Backplane, 2 slot, 15-way connected fabric interface;
3	2	DC version: Redundant power entry module (PEM), -40 V_{DC}... -72 V_{DC}, inserted at rear, for 1 pairs of lines per input AC version: Redundant AC power entry module (PEM), 85 ... 264 V_{AC}, 1200 W each (1000 W at 110 V)
4	2	Fan tray, replaceable from front
5	1	Air filter, can be changed from the front

Note

- Modified systems available on request

Order Information

AdvancedTCA system	Voltage	Backplane type	Part no.
AdvancedTCA 450/40 series, 2 slot, AC and DC	-40 V_{DC} ... -72 V_{DC}	Hub/hub configuration	**11990-704**
		Node/node configuration	**11990-706**
	85 V_{AC} ... 264 V_{AC}	Hub/hub configuration	**11990-705**
		Node/node configuration	**11990-707**
Accessories			
Shelf manager (bussed) 1 piece - page 8.18			**21596-300**
Shelf alarm panel 1 piece			**21596-077**
Front panel, stainless steel for covering an unused shelf manager slot			21596-012
Air baffle modules			**Seite** 8.17
Front panels and handles			**Seite** 8.12
AdvancedMC carriers			**Seite** 8.26

Fabric Channel 15	Fabric Channel 15
Fabric Channel 14	Fabric Channel 14
Fabric Channel 13	Fabric Channel 13
Fabric Channel 12	Fabric Channel 12
Fabric Channel 11	Fabric Channel 11
Fabric Channel 10	Fabric Channel 10
Fabric Channel 9	Fabric Channel 9
Fabric Channel 8	Fabric Channel 8
Fabric Channel 7	Fabric Channel 7
Fabric Channel 6	Fabric Channel 6
Fabric Channel 5	Fabric Channel 5
Fabric Channel 4	Fabric Channel 4
Fabric Channel 3	Fabric Channel 3
Fabric Channel 2	Fabric Channel 2
Fabric Channel 1	Fabric Channel 1
Base Channel 16	Base Channel 16
Base Channel 15	Base Channel 15
Base Channel 14	Base Channel 14
Base Channel 13	Base Channel 13
Base Channel 12	Base Channel 12
Base Channel 11	Base Channel 11
Base Channel 10	Base Channel 10
Base Channel 9	Base Channel 9
Base Channel 8	Base Channel 8
Base Channel 7	Base Channel 7
Base Channel 6	Base Channel 6
Base Channel 5	Base Channel 5
Base Channel 4	Base Channel 4
Base Channel 3	Base Channel 3
Base Channel 2	Base Channel 2
Base Channel 1	Base Channel 1

Shelf Manager 1   Shelf Manager 2

12612050   Node/node configuration   Hub/hub configuration   12612051

ServicePLUS see page 8.112

PICMG
Open Modular
Computing Specifications

E Main Catalog
E 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

N 35

AdvancedTCA 450/40 series, 6 slot, AC and DC

Front view

12713006

Front view, DC version

12713010

Rear view, DC version

12713009

Accessories: Shelf manager

12708006

- ■ 40 G backplane with 6 slots, triple replicated mesh
  - – Bussed IPMB
  - – Radial IPMB

- ■ 450 W cooling capacity per slot at an ambient temperature of 55 °C

- ■ Input voltage
  - – -48 V_{DC}/-60 V_{DC}, two redundant power entry modules (PEM), can optionally be equipped with 2 redundant AC PEMs and 4 AC PSUs
  - – 230 V_{AC}, two redundant AC PEMs each with two IEC 320-C20 AC plugs (please order AC plug-in PSUs separately), optionally can be equipped with 2 redundant DC PEMs

- ■ Two hot swap fan trays, airflow from right to left (push/pull cooling), air filter exchangeable from front

- ■ Prepared for one shelf alarm panel and two Schroff shelf managers with Pigeon Point ShMM 500

- ■ UL recognized, E229721 type T12

- ■ Conforms to AdvancedTCA Standard PICMG 3.0 rev. 3.0

NEW

Delivery includes (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" plug-in unit system, St, 6 U, 84 HP, 385 mm deep; powder coated, black, RAL 9005; with 6 horizontal slots at front, 8 U, 6 HP, 280 mm deep and 6 horizontal slots at rear, 6 HP, 70 mm deep
2	1	Backplane, 6 slot
3	2	DC version: Redundant power entry module (PEM), -40 V_{DC}... -72 V_{DC}, inserted at rear, for 2 pairs of lines per input AC version: Redundant AC power entry module (PEM) 200 V_{AC} ... 240 V_{AC}, with 2 IEC 320-C20 AC mains plugs, inserted at rear
4	2	Fan tray, replaceable from front
5	1	Air filter, can be changed from the front

Order Information

AdvancedTCA system	Voltage	Backplane type	Part no.
AdvancedTCA 450/40 series, 6 slot, AC and DC	-40 V_{DC} ... -72 V_{DC}	bussed IPMB	11990-202
		radial IPMB	11990-203
	200 V_{AC} ... 240 V_{AC}	bussed IPMB	11990-204
		radial IPMB	11990-205

Accessories		
Shelf manager (bussed) 1 piece - page 8.18		**21596-300**
Shelf manager (radial) 1 piece - page 8.18		**21596-301**
Shelf alarm panel 1 piece		**21596-077**
Plug-in power supply unit, AC/DC, 2.7 kW for AdvancedTCA AC systems 1 piece		**21990-286**
Air baffle modules		**Seite** 8.17
Front panels and handles		**Seite** 8.12
AdvancedMC carriers		**Seite** 8.26

Note

- ■ Modified systems available on request

ServicePLUS see page 8.112

PICMG
Open Modular
Computing Specifications

N 36

E Main Catalog
E 02/2014

Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

AdvancedMC mini system for 2 single AdvancedMC modules
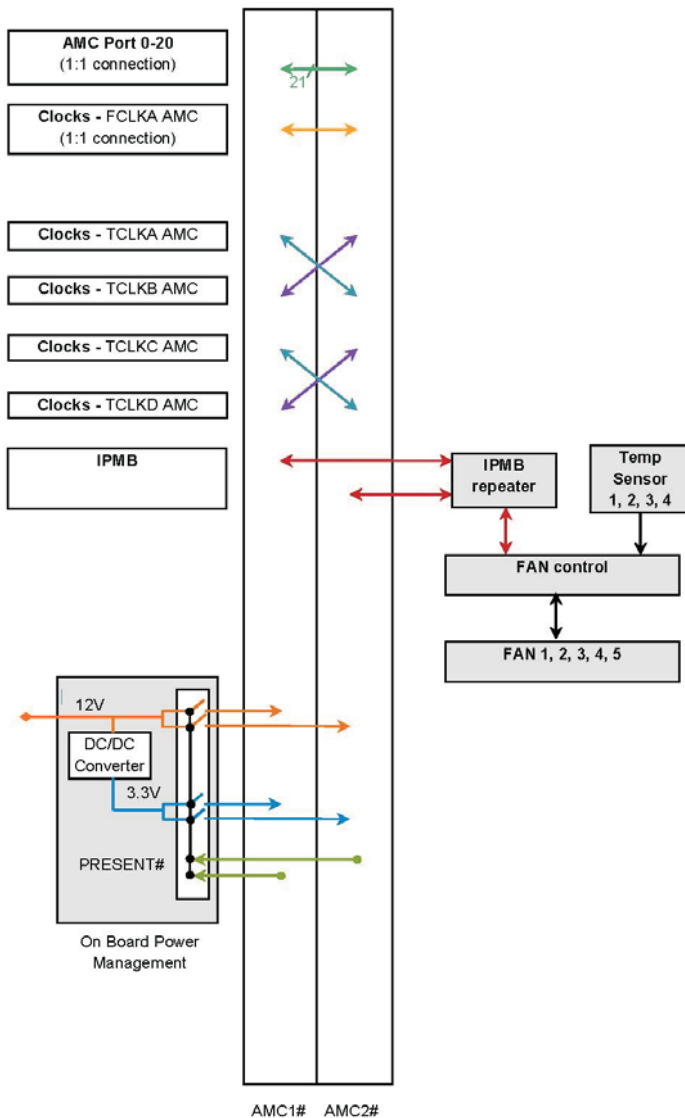
- Small, compact case to hold 2 single full-size AdvancedMC modules With the optional 2 HP filler module, 2 single mid-size modules can also be fitted

- 150 W cooling capacity at an ambient temperature of 55 °C, airflow from right to left, temperature-regulated fans

- 90 - 264 V_{AC} wide range input on rear of case, 150 W power supply in rear section of enclosure

- Direct connection of all ports between both AdvancedMC slots (see backplane topology); data transfer rates up to 10 Gbps per port

- The system can be stacked and is prepared for a mounting plate

- Fan unit and fan filter are easy to replace

- 12 V_{DC} voltage is activated by the AdvancedMC module presence signal

NEW

12913001

Delivery includes ((completely assembled, cabled and tested))

Item	Qty	Description
1	1	Shielded case, St, black RAL 9005, 1 U, 252 mm wide, 302 mm deep, with 2 horizontal slots for single full-size AdvancedMC modules
2	1	Backplane, 2 slot, with fan control and AdvancedMC slot power activation
3	1	AC mains input via 1 IEC 320-C20 AC mains plug, 150 W open frame PSU, 90 - 264 V_{AC}
4	2	Fan tray, easy to replace
5	1	Air filter, easy to replace
6	4	Rubber feet, included

Order Information

MicroTCA system	Backplane type	Part no.
AdvancedMC mini system for 2 single AdvancedMC modules	Direct connection of ports 0 - 20 and FLCK, cross connects for TCLK A.D	11850-023

Note

- Modified systems available on request

For further information www.schroff.biz/oneclick
oneClick search code = Part no.

AMC Port 0-20
(1:1 connection)

Clocks - FCLKA AMC
(1:1 connection)

Clocks - TCLKA AMC

Clocks - TCLKB AMC

Clocks - TCLKC AMC

Clocks - TCLKD AMC

IPMB

IPMB repeater

Temp Sensor 1, 2, 3, 4

FAN control

FAN 1, 2, 3, 4, 5

12V

DC/DC Converter

3.3V

PRESENT#

On Board Power Management

AMC1#   AMC2#

12613050

ServicePLUS see page 8.112

PICMG
Open Modular Computing Specifications

E Main Catalog
E 02/2014

Part number in bold face type: ready for shipping within 2 working days
Part number in normal type: ready for shipping within 10 working days

N 37